





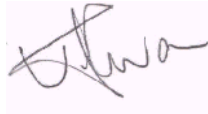
**Conformance Test Report
for EN301 406 v1.5.1 (2003-07)
Digital Enhanced Cordless Telecommunic. (DECT);
Harmonized EN for Digital Enhanced Cordless
Telecommunications(DECT) covering essential
requirements under article 3.2 of R&TTE Directive;
Generic radio**

Report No.: ET94B-10-047-1

Client:	SunCorp Communications Limited
Product:	DECT Phone
System Under Test (SUT):	6166-D38(PP)
Manufacturer	Shenzhen Guo Wei Electronics Co., Ltd.
Date test item received:	2005/10/21
Date test campaign completed	2005/10/26
Date of issue:	2005/10/27

*The test report include test result of conformance log layer 1.
Total number of pages of this test report: 27 pages*

The test result only corresponds to the tested sample. It is not permitted to copy this report, in part or in full, without the permission of the test laboratory.

Tested by  Alex Chen	Checked by  David Song	Approved by  Victor Kwan
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**TÜV Hong Kong Ltd.
TÜV SÜD Group
Unit 601 Tech Centre, 72 Tat Chee Avenue, Kowloon Tong, Kowloon**

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1.1 Reason for measurements and identification of the protocol

The Test Candidate shall be tested to
DECT, General terminal attachment requirements

EN 300 406 V1.5.1	2003-07
EN 300 175-2, PHL	July 2003

1.1.1 Global statement of conformance

Has the applicant filled out the Client Test Preparation Information in accordance to EN301 406	Yes
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see annex ,EN301 406 Statement of the applicant

1.2 Identification and functional description of the test candidate

1.2.1 Client identification

Name	SunCorp Communications Limited
Contact person	Mr. C.W. Cheung
Address	Room 1907-08, Harcourt House, 39 Gloucester Road, Wanchai, Hong Kong
Phone No.	86 755 25733333/ 25736666
Fax No.	86 755 5732288

1.2.2 Identification of the Test Candidate:

RFPI of the FP with int. antenna	- -
RFPI of the FP with temp. ant. con.	009B1430B0
Hardware version	- -
Software version	- -
Operating voltage nom/min/max	2.7VAC/2.4VAC/3.0VAC
Serial No of the FP with int. antenna.	- -
Serial No of the FP with temp. ant. con.	- -

1.2.3 Functional description

The Test Candidate is a Portable Part with integrated antennas of a cordless telephone system for 3.1 kHz voice-communications on **DECT-standard**. For the integrated antennas a diversity-switch is included to the equipment. This Portable Part is used in combination with a Fixed Part (FP) for connections to the analogue public switched telephone network

For the tests one sample with integrated antenna and one sample with 50 Ω -connector were available to the test lab.

1.3 Climatic Conditions

Temperature °C	Rel. Humidity %	Atmospheric Pressure
nominal value		
aimed +15°C - +35°C	aimed 20% - 75%	aimed 86 - 106 kPa

The requirements for temperature, rel. humidity and atmospheric pressure were observed and be within the specified range.

1.4 Measurement accuracy

The measurement accuracy is in accordance with EN301 406 V1.5.1 (2003-07)

Note: All values reflect a confidence level of 95 %.

The actual measurement uncertainties are described at each test.

1.5 Test equipment used

Equipment	Inventory-No.:
R&S DECT Type approval system TS 8930 FTAS:	
Process Controller	H1882000176
R&S Signalling unit TS1220	-
RF-Generator	H1882000179
RF-Generator	H1882000187
Spectrum- Analyzer	H1882000186
Switch Matrix	H1882000185
RF-Generator	H1882000162
Software	DOS-Version 3.02F from 19.02.99
Anechoic Chamber V	
Spectrum- Analyzer	H1882000161
RF-Pre-Amplifier	H1882000169
RF-Pre-Amplifier	H1882000170
RF-Filter	H1882000189
RF-Filter	H1882000190
RF-Antenna	H1882000145
RF-Antenna	H1882000146
RF-Antenna	H1882001604
RF-Antenna	H1882001605
Control-PC	H1882000140
Software T_Case_12	V 3.1 from 19.07.99

1.6 Explanation of the results abbreviations

P = pass, inside of the specification

P* = pass, inside of the specification in consideration of the test accuracy

F = failed, exceeding the specification

O = not implicated

- = not tested

? = no clear result considering to the specification

* = see note

1.7 Comments for testing

Delivery date of Test Candidate: 2005.10.21
The tests were done from 2005.10.21 at 2005.10.26

Electronics Testing Center ,Taiwan

No.8, Lane 29, Wen-Ming Road Lo-ShanTsun Kui-Shan Hsiang
Taoyuan Hsien 333, Taiwan R.O.C.

During the tests were present:

Mr. Alex Chen from **ETC**

Mr.Victor Kwan from **TÜV Hong Kong Ltd.**

Mr. C.W. Cheung from **SunCorp Communications Limited**

The test set-up and tests are according to EN301 406 V1.5.1(2003-07) and **DTAAB DT.04 V10 from 11/99** and the internal test comments of the test lab.

All measurements, in exception of parts of Testcase 6 and Testcase 12, were done at the equipment with 50 Ω -temporary antenna connector.

All radiated measurements were done in the anechoic chamber

The test site and the whole test equipment is according to standards

CTR6, TBR 6, third edition, June 1999.

EN301 406 V1.5.1(2003-07)

2 IUT conformance status according to EN301 406 V1.5.1 (2003-07)

2.1 IUT conformance summary

The IUT **has not been** shown by conformance assessment to be non conforming to the general terminal attachment requirements, EN301 406

2.2 EN301 406 results overview

Test case	Point	Testcase description	Remarks	Sel.	Run	Verdict
1	4.5.1	Accuracy and stability of RF carriers		Y	Y	Pass
2	4.5.2	Timing jitter: slot - slot on the same channel		Y	Y	Pass
3		Reference timing accuracy of a RFP		N	N	----
4		Measurement of packet timing accuracy	only for portable part	Y	Y	Pass
5	4.5.3	Transmission burst		Y	Y	Pass
6	4.5.4.1.1	Transmitted power (with an internal antenna) NTP		Y	Y	Pass
7	4.5.4.1.2	Transmitted power (with an external antenna connector)		Y	Y	Pass
8	4.5.5	RF carrier modulation		Y	Y	Pass
9	4.5.6.2	Emissions due to modulation		Y	Y	Pass
10	4.5.6.3	Emissions due to transmitter transients		Y	Y	Pass
11	4.5.6.4	Emissions due to intermodulation	only for basestation with more than one transmitter	N	N	---
12	4.5.6.5	Spurious emissions when allocated a transmit channel	Conducted spurious	Y	Y	Pass
			Radiated spurious			Pass
13	4.5.7.1	Radio receiver sensitivity		Y	Y	Pass
14	4.5.7.2	Radio receiver reference bit error ratio		Y	Y	Pass
15	4.5.7.3	Radio receiver interference performance		Y	Y	Pass
16	4.5.7.4	Radio receiver blocking case 1		Y	Y	Pass
17	4.5.7.5	Radio receiver blocking case 2		Y	Y	Pass
18	4.5.7.6	Receiver intermodulation performance		Y	Y	Pass
19	4.5.7.7	Spurious emissions when the radio endpoint has no allocated transmit channel	only for portable part	Y	Y	Pass

EN301 406 results overview

Test case	Point	Testcase description	Remarks	Sel.	Verdict
20	4.5.8	Synchronisation port		N	No test
21	4.5.9	Equipment identity verification /safeguards		N	Manufacturer declaration
22	4.5.10	Efficient use of radio spectrum		N	Manufacturer declaration
23	4.5.11	WRS		N	No test
24	4.5.12	PP to PP communication		N	No test
25	4.5.13	Direct communication		N	No test
26	4.5.14	Higher level modulation		N	No test

2.3 Test campaign report

2.3.1 TC 1 Accuracy and stability of RF carriers (4.5.1)

aimed for $t \geq 1$ s with $\Delta f \leq \pm 50$ kHz under nominal and extreme conditions

	Deviation [kHz]		
	channel 0	channel 5	channel 9
nom. Temperature and nom. Voltage	-19.61	-22.05	-13.99
0°C and minimum voltage	-10.13	-8.18	-1.61
0°C and maximum voltage	-9.20	-10.82	-4.58
+40°C and minimum voltage	-26.14	-21.94	-22.82
+40°C and maximum voltage	-26.78	-26.91	-25.78

Measurement uncertainty: $< 1\%$

aimed for $t \leq 1$ s with $\Delta f \leq \pm 100$ kHz under nominal and extreme conditions

	Deviation [kHz]		
	Channel 0	Channel 5	Channel 9
nom. Temperature and nom. Voltage	-21.38	-20.17	-18.74
0°C and minimum voltage	-7.79	-10.07	-10.27
0°C and maximum voltage	-19.65	-6.21	-17.53
+40°C and minimum voltage	-20.65	-17.72	-18.60
+40°C and maximum voltage	-22.46	-26.57	-24.79

Comment: minimum voltage = 2.4 V

P
P
P
P
P

P
P
P
P
P

2.3.2 TC 2 Timing jitter: slot- slot on the same channel (8.3)

Test in channel 5 aimed $< \pm 1$ μ s	Deviation [μ s]	
	positive	Negative
nom. Temperature and nom. Voltage	0.117	-0.121
0°C and minimum voltage	0.122	-0.129
0°C and maximum voltage	0.124	-0.139
+40°C and minimum voltage	0.123	-0.125
+40°C and maximum voltage	0.114	-0.119

Measurement uncertainty: ≤ 77.4 ns

Comment: minimum voltage = 2.4V

P
P
P
P
P

2.3.3 TC 3 Reference timing accuracy of a RFP only recommended for fixed part

2.3.4 TC 4 Measurement of packet transmission accuracy

The packet time delay minimum shall be greater than 5ms-2 μ s

The packet time delay maximum shall be less than 5ms+2 μ s

Voltage(V)	Temperature(°C)	Packet Time Delay(μ s)					
		channel 0		channel 5		channel 9	
		max.	min.	max.	min.	max.	min.
nom.	nom.	0.125	-0.135	0.118	-0.146	0.123	-0.126
min.	min.	0.162	-0.103	0.121	-0.102	0.126	-0.122
	max.	0.125	-0.138	0.128	-0.137	0.113	-0.155
max.	min.	0.095	-0.127	0.090	-0.131	0.088	-0.129
	max.	0.096	-0.086	0.136	-0.131	0.132	-0.124

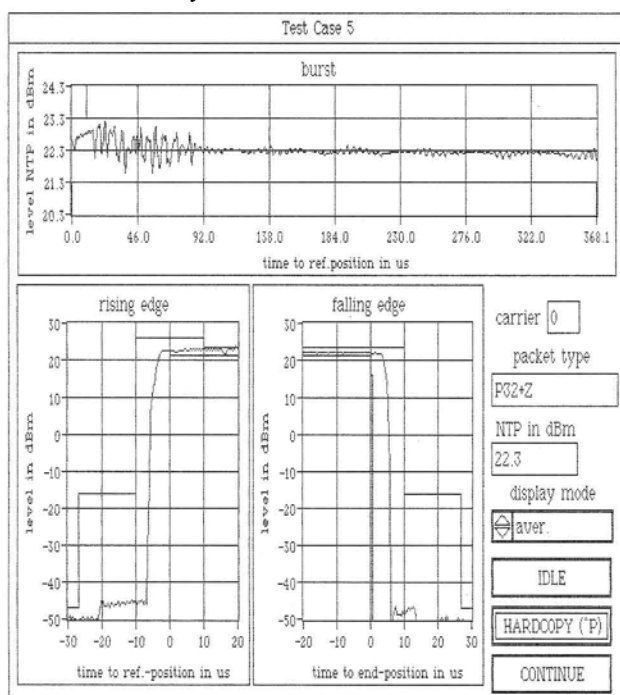
Measurement uncertainty: ≤ 77.4 ns

Comment: minimum voltage = 2.4V

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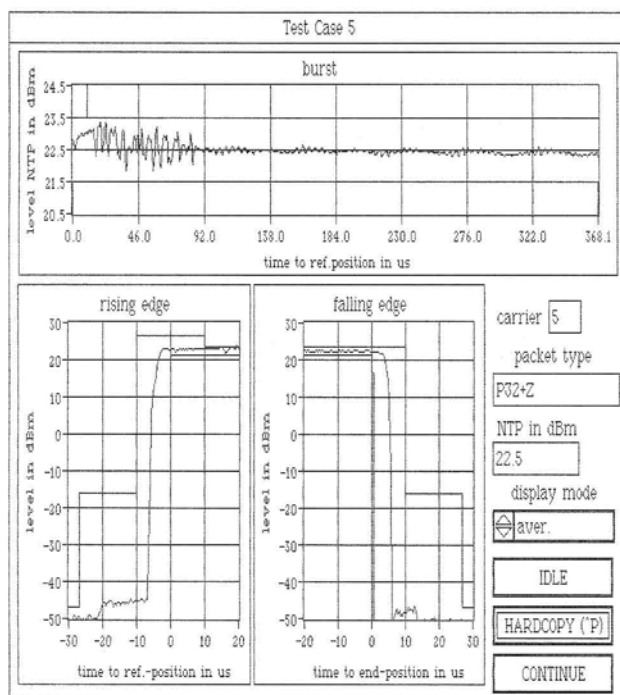
2.3.5 TC 5 Transmission Burst (4.5.3)

Measurement uncertainty: + 0.85 dB / -0.92 dB



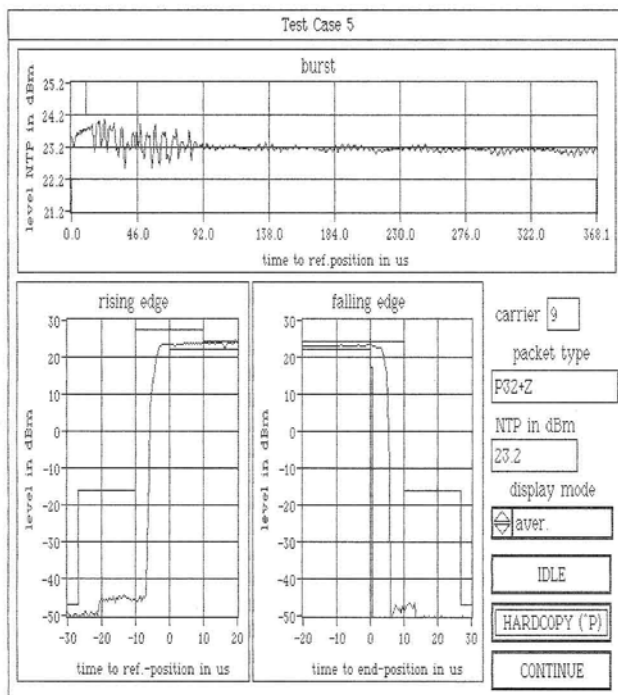
Nom. Temperature and nom. Voltage

P



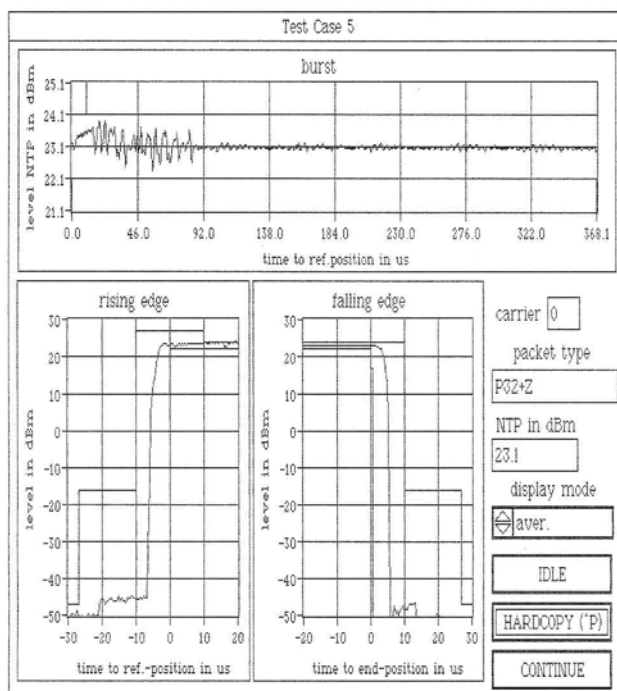
Nom. Temperature and nom. Voltage

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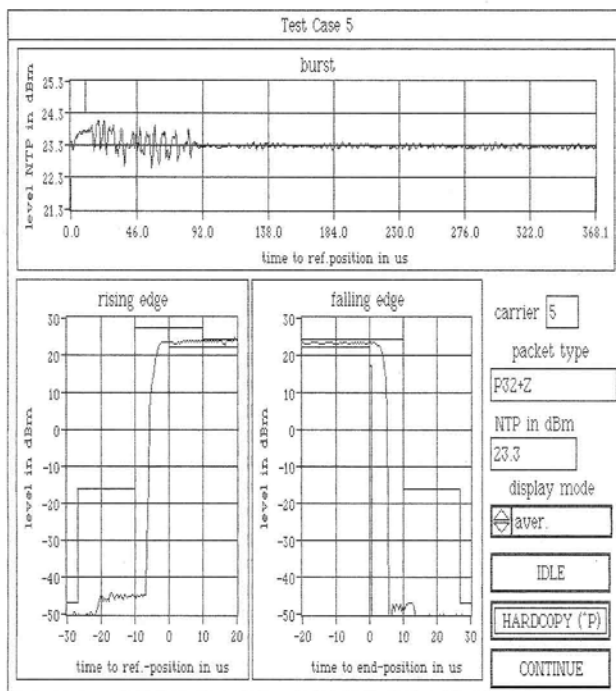
Nom. Temperature and nom. Voltage

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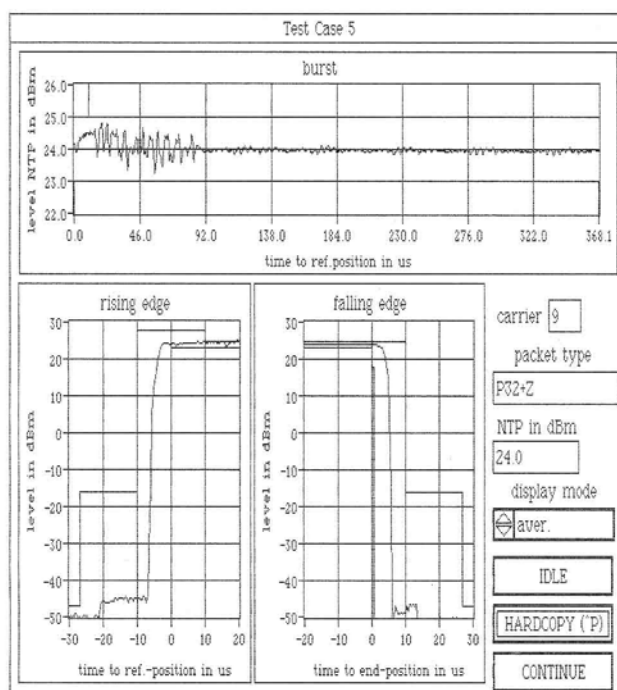
+0°C temperature and nom. Voltage

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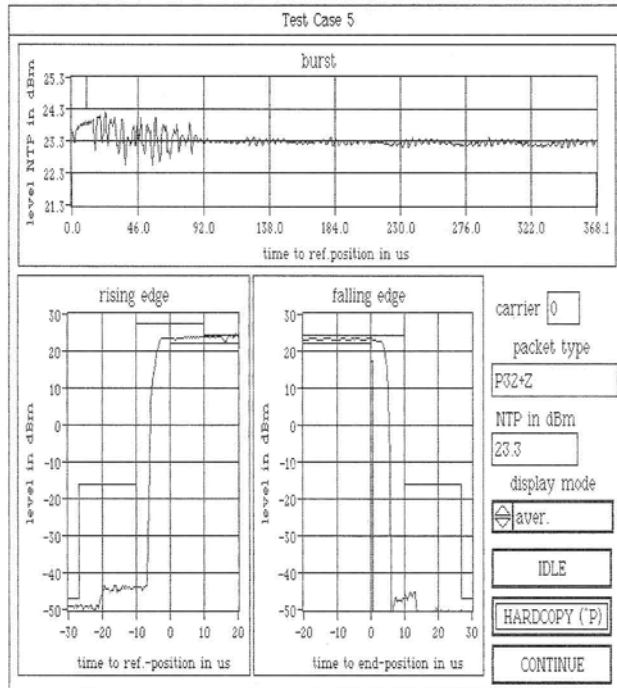
+0°C temperature and nom. Voltage

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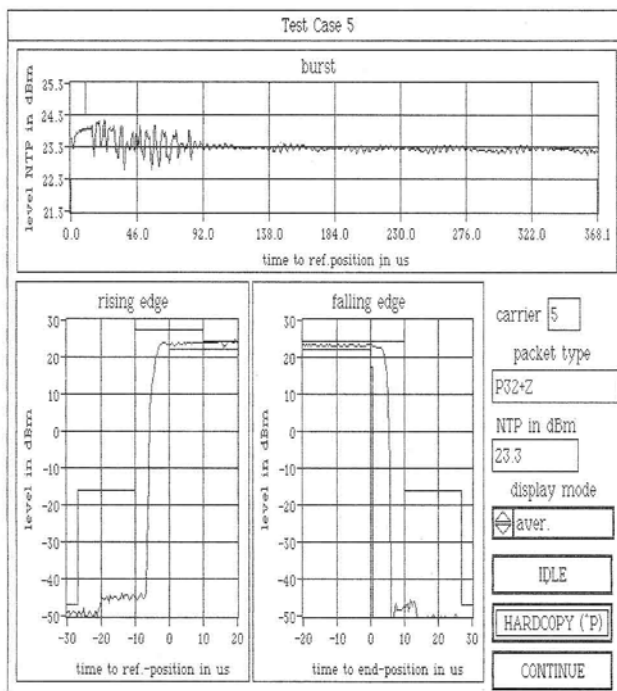
+0°C temperature and nom. Voltage

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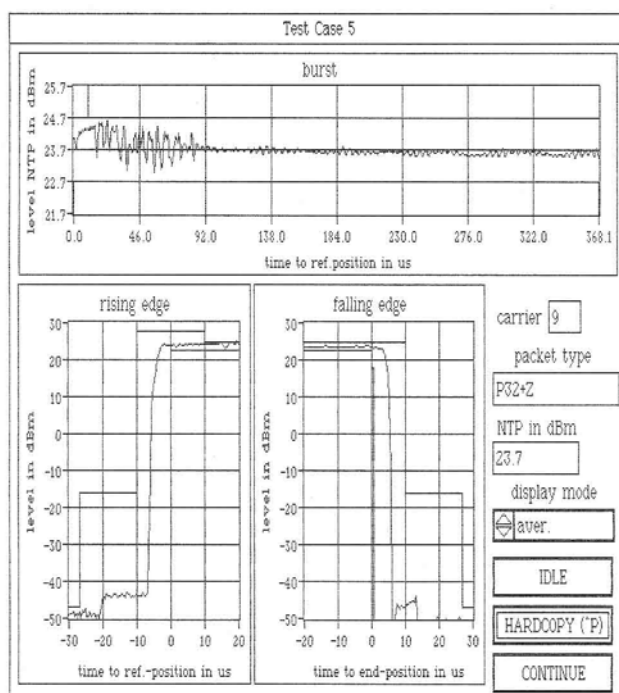
+40°C temperature and nom. Voltage

P



+40°C temperature and nom. Voltage

P



+40°C temperature and nom. Voltage

P

2.3.6 TC 6 Transmitted power: PP and RFP with integral antenna (4.5.4.1.1)

Conducted RF-output power in the Burst: aimed ≤ 250 mW (24 dBm)
 Height of receive antenna actual = **1.50 m**
 Radiated field strength maximum at position in degrees ant. 0 actual = **10°** hor

Antenna gain: aimed with max. 12 dB

Antenna	conducted Power	radiated Power	Antenna gain
Channel 0	22.30 dBm	18.76 dBm	-3.54 dB
Channel 5	22.50 dBm	18.99 dBm	-3.51 dB
Channel 9	23.20 dBm	18.87 dBm	-4.33 dB

P

Measurement uncertainty radiated: + 3.53 dB / -3.53 dB
 Measurement uncertainty conducted: + 0.85 dB / -0.92 dB

2.3.7 TC 7 Transmitted power: FP with an external antenna Connector (4.5.4.1.2)

not applicable

2.3.8 TC 8 RF-carrier modulation (4.5.5)

part 1: aimed $> \pm 259 \text{ kHz} < \pm 403 \text{ kHz}$
 part 2-3: aimed $> \pm 202 \text{ kHz} < \pm 403 \text{ kHz}$
 part 4: aimed $< \pm 15 \text{ kHz/slot}$

Measurement uncertainty part 1-3: $\pm 10 \text{ kHz}$
 part 4: $\pm 2 \text{ kHz}$

TRAFFIC SLOT: 16
 TRAFFIC CARRIER: 5
 PACKET TYPE: P32+Z

part1: 10 bursts evaluated

maximum positive modulation: 338.80 kHz

maximum negative modulation: -338.29 kHz

part2: 10 bursts evaluated

maximum positive modulation: 339.61 kHz

maximum negative modulation: -334.41 kHz

part3: 10 bursts evaluated

maximum positive modulation: 316.49 kHz

maximum negative modulation: -313.53 kHz

part4: 200 bursts evaluated

averaged frequency drift: 3.16 kHz/slot

P

P

P

P

P

P

P

2.3.9 TC 9 Emissions due to modulation (4.5.6.2)

Measurement uncertainty: $+ 0.49 \text{ dB} / -0.51 \text{ dB}$

One exception $< -33 \text{ dBm}$ (500 nW) permissible

TRAFFIC SLOT: 22
 TRAFFIC CARRIER: 0
 PACKET TYPE: P32+Z
 measured NTP: 22.30 dBm

		measured values	limits	
CARRIER 0:	integrated power	22.30 dBm	---	P
CARRIER 1:	integrated power	-16.47 dBm	-8 dBm	P
CARRIER 2:	integrated power	-46.21 dBm	-30 dBm	P
CARRIER 3:	integrated power	-50.94 dBm	-41 dBm	P
CARRIER 4:	integrated power	-50.25 dBm	-44 dBm	P
CARRIER 5:	integrated power	-50.43 dBm	-44 dBm	P
CARRIER 6:	integrated power	-50.71 dBm	-44 dBm	P
CARRIER 7:	integrated power	-50.88 dBm	-44 dBm	P
CARRIER 8:	integrated power	-51.02 dBm	-44 dBm	P
CARRIER 9:	integrated power	-51.11 dBm	-44 dBm	P

TRAFFIC SLOT: 16
 TRAFFIC CARRIER: 5
 PACKET TYPE: P32+Z
 measured NTP: 22.50 dBm

		measured values	limits	
CARRIER 0:	integrated power	-50.55 dBm	-44 dBm	P
CARRIER 1:	integrated power	-50.28 dBm	-44 dBm	P
CARRIER 2:	integrated power	-49.58 dBm	-41 dBm	P
CARRIER 3:	integrated power	-46.59 dBm	-30 dBm	P
CARRIER 4:	integrated power	-19.38 dBm	-8 dBm	P
CARRIER 5:	integrated power	22.50 dBm	---	P
CARRIER 6:	integrated power	-17.52 dBm	-8 dBm	P
CARRIER 7:	integrated power	-46.12 dBm	-30 dBm	P
CARRIER 8:	integrated power	-50.79 dBm	-41 dBm	P
CARRIER 9:	integrated power	-50.13 dBm	-44 dBm	P

TRAFFIC SLOT: 14
 TRAFFIC CARRIER: 9
 PACKET TYPE: P32+Z
 measured NTP: 23.20 dBm

		measured values	limits	
CARRIER 0:	integrated power	- 50.78 dBm	-44 dBm	P
CARRIER 1:	integrated power	- 50.70 dBm	-44 dBm	P
CARRIER 2:	integrated power	- 50.63 dBm	-44 dBm	P
CARRIER 3:	integrated power	- 50.40 dBm	-44 dBm	P
CARRIER 4:	integrated power	- 50.04 dBm	-44 dBm	P
CARRIER 5:	integrated power	- 49.70 dBm	-44 dBm	P
CARRIER 6:	integrated power	- 49.07 dBm	-41 dBm	P
CARRIER 7:	integrated power	- 45.94 dBm	-30 dBm	P
CARRIER 8:	integrated power	- 19.17 dBm	-8 dBm	P
CARRIER 9:	integrated power	23.20 dBm	---	P

2.3.10 TC 10 Emissions due to transmitter transients (4.5.6.3)

Measurement uncertainty: + 0.49 dB / -0.51 dB

TRAFFIC SLOT: 16
 TRAFFIC CARRIER: 0
 PACKET TYPE: P32+Z

		measured values	limits	
CARRIER 0:	max. Power	172.68 mW (22.37 dBm)	---	p
CARRIER 1:	max. Power	163.83 uW (-7.86 dBm)	-6 dBm	p
CARRIER 2:	max. Power	45.10 nW (-43.46 dBm)	-14 dBm	p
CARRIER 3:	max. Power	11.28 nW (-49.48 dBm)	-24 dBm	p
CARRIER 4:	max. Power	11.48 nW (-49.40 dBm)	-30 dBm	p
CARRIER 5:	max. Power	11.35 nW (-49.45 dBm)	-30 dBm	p
CARRIER 6:	max. Power	10.96 nW (-49.60 dBm)	-30 dBm	p
CARRIER 7:	max. Power	9.80 nW (-50.09 dBm)	-30 dBm	p
CARRIER 8:	max. Power	11.15 nW (-49.53 dBm)	-30 dBm	p
CARRIER 9:	max. Power	10.89 nW (-49.63 dBm)	-30 dBm	p

TRAFFIC SLOT:	18				
TRAFFIC CARRIER:	1				
PACKET TYPE:	P32+Z				
		measured values	limits		
CARRIER 0:	max. Power	77.96 uW (-11.08 dBm)	-6 dBm	p	
CARRIER 1:	max. Power	182.01 mW (22.60 dBm)	---	p	
CARRIER 2:	max. Power	177.81 uW (-7.50 dBm)	-6 dBm	p	
CARRIER 3:	max. Power	42.29 nW (-43.74 dBm)	-14 dBm	p	
CARRIER 4:	max. Power	9.52 nW (-50.21 dBm)	-24 dBm	p	
CARRIER 5:	max. Power	10.77 nW (-49.68 dBm)	-30 dBm	p	
CARRIER 6:	max. Power	10.33 nW (-49.86 dBm)	-30 dBm	p	
CARRIER 7:	max. Power	11.35 nW (-49.45 dBm)	-30 dBm	p	
CARRIER 8:	max. Power	9.98 nW (-50.01 dBm)	-30 dBm	p	
CARRIER 9:	max. Power	8.32 nW (-50.80 dBm)	-30 dBm	p	
TRAFFIC SLOT:	20				
TRAFFIC CARRIER:	2				
PACKET TYPE:	P32+Z				
		measured values	limits		
CARRIER 0:	max. Power	34.47 nW (-44.63 dBm)	-14 dBm	p	
CARRIER 1:	max. Power	89.19 uW (-10.50 dBm)	-6 dBm	p	
CARRIER 2:	max. Power	191.85 mW (22.83 dBm)	---	p	
CARRIER 3:	max. Power	117.40 uW (-9.30 dBm)	-6 dBm	p	
CARRIER 4:	max. Power	44.58 nW (-43.51 dBm)	-14 dBm	p	
CARRIER 5:	max. Power	10.10 nW (-49.96 dBm)	-24 dBm	p	
CARRIER 6:	max. Power	12.68 nW (-48.97 dBm)	-30 dBm	p	
CARRIER 7:	max. Power	9.86 nW (-50.06 dBm)	-30 dBm	p	
CARRIER 8:	max. Power	9.25 nW (-50.34 dBm)	-30 dBm	p	
CARRIER 9:	max. Power	10.89 nW (-49.63 dBm)	-30 dBm	p	
TRAFFIC SLOT:	22				
TRAFFIC CARRIER:	3				
PACKET TYPE:	P32+Z				
		measured values	limits		
CARRIER 0:	max. Power	14.94 nW (-48.26 dBm)	-24 dBm	p	
CARRIER 1:	max. Power	33.47 nW (-44.75 dBm)	-14 dBm	p	
CARRIER 2:	max. Power	78.42 uW (-11.06 dBm)	-6 dBm	p	
CARRIER 3:	max. Power	196.39 mW (22.93 dBm)	---	p	
CARRIER 4:	max. Power	166.73 uW (-7.78 dBm)	-6 dBm	p	
CARRIER 5:	max. Power	44.32 nW (-43.53 dBm)	-14 dBm	p	
CARRIER 6:	max. Power	10.46 nW (-49.81 dBm)	-24 dBm	p	
CARRIER 7:	max. Power	12.39 nW (-49.07 dBm)	-30 dBm	p	
CARRIER 8:	max. Power	10.10 nW (-49.96 dBm)	-30 dBm	p	
CARRIER 9:	max. Power	10.89 nW (-49.63 dBm)	-30 dBm	p	
TRAFFIC SLOT:	16				
TRAFFIC CARRIER:	4				
PACKET TYPE:	P32+Z				
		measured values	limits		
CARRIER 0:	max. Power	14.94 nW (-48.26 dBm)	-30 dBm	P	
CARRIER 1:	max. Power	12.03 nW (-49.20 dBm)	-24 dBm	p	
CARRIER 2:	max. Power	40.36 nW (-43.94 dBm)	-14 dBm	p	
CARRIER 3:	max. Power	76.16 uW (-11.18 dBm)	-6 dBm	p	
CARRIER 4:	max. Power	216.91 mW (23.36 dBm)	---	p	
CARRIER 5:	max. Power	173.70 uW (-7.60 dBm)	-6 dBm	p	
CARRIER 6:	max. Power	50.40 nW (-42.98 dBm)	-14 dBm	p	
CARRIER 7:	max. Power	11.62 nW (-49.35 dBm)	-24 dBm	p	
CARRIER 8:	max. Power	12.61 nW (-48.99 dBm)	-30 dBm	p	
CARRIER 9:	max. Power	10.96 nW (-49.60 dBm)	-30 dBm	p	

TRAFFIC SLOT:	16				
TRAFFIC CARRIER:	5				
PACKET TYPE:	P32+Z				
		measured values	limits		
CARRIER 0:	max. Power	10.10 nW (-49.96 dBm)	-30 dBm	p	
CARRIER 1:	max. Power	11.48 nW (-49.40 dBm)	-30 dBm	p	
CARRIER 2:	max. Power	13.52 nW (-48.69 dBm)	-24 dBm	p	
CARRIER 3:	max. Power	38.07 nW (-44.19 dBm)	-14 dBm	p	
CARRIER 4:	max. Power	77.51 uW (-11.11 dBm)	-6 dBm	p	
CARRIER 5:	max. Power	211.90 mW (23.26 dBm)	---	p	
CARRIER 6:	max. Power	139.09 uW (-8.57 dBm)	-6 dBm	p	
CARRIER 7:	max. Power	42.29 nW (-43.74 dBm)	-14 dBm	p	
CARRIER 8:	max. Power	9.80 nW (-50.09 dBm)	-24 dBm	p	
CARRIER 9:	max. Power	12.10 nW (-49.17 dBm)	-30 dBm	p	
TRAFFIC SLOT:	18				
TRAFFIC CARRIER:	6				
PACKET TYPE:	P32+Z				
		measured values	limits		
CARRIER 0:	max. Power	11.62 nW (-49.35 dBm)	-30 dBm	p	
CARRIER 1:	max. Power	15.38 nW (-48.13 dBm)	-30 dBm	p	
CARRIER 2:	max. Power	14.17 nW (-48.49 dBm)	-30 dBm	p	
CARRIER 3:	max. Power	13.45 nW (-48.71 dBm)	-24 dBm	p	
CARRIER 4:	max. Power	38.07 nW (-44.19 dBm)	-14 dBm	p	
CARRIER 5:	max. Power	79.34 uW (-11.00 dBm)	-6 dBm	p	
CARRIER 6:	max. Power	216.91 mW (23.36 dBm)	---	p	
CARRIER 7:	max. Power	167.71 uW (-7.75 dBm)	-6 dBm	p	
CARRIER 8:	max. Power	50.70 nW (-42.95 dBm)	-14 dBm	p	
CARRIER 9:	max. Power	11.22 nW (-49.50 dBm)	-24 dBm	p	
TRAFFIC SLOT:	20				
TRAFFIC CARRIER:	7				
PACKET TYPE:	P32+Z				
		measured values	limits		
CARRIER 0:	max. Power	9.47 nW (-50.24 dBm)	-30 dBm	p	
CARRIER 1:	max. Power	9.80 nW (-50.09 dBm)	-30 dBm	p	
CARRIER 2:	max. Power	10.96 nW (-49.60 dBm)	-30 dBm	p	
CARRIER 3:	max. Power	12.39 nW (-49.07 dBm)	-30 dBm	p	
CARRIER 4:	max. Power	13.76 nW (-48.61 dBm)	-24 dBm	p	
CARRIER 5:	max. Power	34.47 nW (-44.63 dBm)	-14 dBm	p	
CARRIER 6:	max. Power	74.84 uW (-11.26 dBm)	-6 dBm	p	
CARRIER 7:	max. Power	225.98 mW (23.54 dBm)	---	p	
CARRIER 8:	max. Power	134.29 uW (-8.72 dBm)	-6 dBm	p	
CARRIER 9:	max. Power	73.28 nW (-41.35 dBm)	-14 dBm	p	
TRAFFIC SLOT:	22				
TRAFFIC CARRIER:	8				
PACKET TYPE:	P32+Z				
		measured values	limits		
CARRIER 0:	max. Power	9.36 nW (-50.29 dBm)	-30 dBm	p	
CARRIER 1:	max. Power	9.92 nW (-50.03 dBm)	-30 dBm	p	
CARRIER 2:	max. Power	10.52 nW (-49.78 dBm)	-30 dBm	p	
CARRIER 3:	max. Power	10.89 nW (-49.63 dBm)	-30 dBm	p	
CARRIER 4:	max. Power	11.41 nW (-49.43 dBm)	-30 dBm	p	
CARRIER 5:	max. Power	13.13 nW (-48.82 dBm)	-24 dBm	p	
CARRIER 6:	max. Power	29.43 nW (-45.31 dBm)	-14 dBm	p	
CARRIER 7:	max. Power	71.84 uW (-11.44 dBm)	-6 dBm	p	
CARRIER 8:	max. Power	232.68 mW (23.67 dBm)	---	p	
CARRIER 9:	max. Power	183.08 uW (-7.37 dBm)	-6 dBm	p	

TRAFFIC SLOT: 14
 TRAFFIC CARRIER: 9
 PACKET TYPE: P32+Z

		measured values	limits
CARRIER 0:	max. Power	9.41 nW (-50.26 dBm)	-30 dBm
CARRIER 1:	max. Power	9.36 nW (-50.29 dBm)	-30 dBm
CARRIER 2:	max. Power	10.89 nW (-49.63 dBm)	-30 dBm
CARRIER 3:	max. Power	11.82 nW (-49.27 dBm)	-30 dBm
CARRIER 4:	max. Power	12.53 nW (-49.02 dBm)	-30 dBm
CARRIER 5:	max. Power	11.48 nW (-49.40 dBm)	-30 dBm
CARRIER 6:	max. Power	14.34 nW (-48.44 dBm)	-24 dBm
CARRIER 7:	max. Power	33.28 nW (-44.78 dBm)	-14 dBm
CARRIER 8:	max. Power	77.06 uW (-11.13 dBm)	-6 dBm
CARRIER 9:	max. Power	235.42 mW (23.72 dBm)	---

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2.3.11 TC 11 Emissions due to intermodulation (4.5.6.4)

only for basestations with several transmitters

2.3.12 TC 12 Spurious emissions when allocated a transmit channel (4.5.6.5)

Channel 5, radiated

values <6 dB of the limit-line are listed

30 MHz – 1 GHz	aimed ≤ -36 dBm	actual ≤ -51.97 dBm
1 GHz – 4 GHz	aimed ≤ -30 dBm	actual ≤ -47.40 dBm
Peak at 3.777 GHz hor.	aimed ≤ -30 dBm	actual ≤ -38.69 dBm
broadcast bands according to TBR 6	aimed ≤ -47 dBm	actual ≤ -52.38 dBm

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Measurement uncertainty f<1GHz: + 2.89 dB / -2.98 dB
 f>1GHz: + 3.53 dB / -3.53 dB

Channel 5, conducted

TRAFFIC SLOT: 2
 TRAFFIC CARRIER: 5
 PACKET TYPE: P32+Z

Wideband Measurements

Range from 300kHz to 12750.00 MHz

Measurement uncertainty f>1GHz: + 1.40 dB / -1.75 dB

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2.3.13 TC 13 Radio receiver sensitivity (4.5.7.1)

At a level of -83 dBm the BER shall be $\leq 10^{-3}$.

Measurement uncertainty: + 0.25 dB / -0.27 dB

TRAFFIC SLOT:	16			
TRAFFIC CARRIER:	0			
PACKET TYPE:	P32+Z			
Center frequency offset:	0 kHz			
BER: 0.00000000	FER: 0.000000	evaluated:	320 kbit	P
Center frequency offset:	50 kHz			
BER: 0.00000000	FER: 0.000000	evaluated:	320 kbit	P
Center frequency offset:	-50 kHz			
BER: 0.00000000	FER: 0.000000	evaluated:	320 kbit	P
TRAFFIC SLOT:	18			
TRAFFIC CARRIER:	5			
PACKET TYPE:	P32+Z			
Center frequency offset:	0 kHz			
BER: 0.00000000	FER: 0.000000	evaluated:	320 kbit	P
Center frequency offset:	50 kHz			
BER: 0.00000000	FER: 0.000000	evaluated:	320 kbit	P
Center frequency offset:	-50 kHz			
BER: 0.00000000	FER: 0.000000	evaluated:	320 kbit	P
TRAFFIC SLOT:	20			
TRAFFIC CARRIER:	9			
PACKET TYPE:	P32+Z			
Center frequency offset:	0 kHz			
BER: 0.00000000	FER: 0.000000	evaluated:	320 kbit	P
Center frequency offset:	50 kHz			
BER: 0.00000000	FER: 0.000000	evaluated:	320 kbit	P
Center frequency offset:	-50 kHz			
BER: 0.00000000	FER: 0.000000	evaluated:	320 kbit	P

2.3.14 TC 14 Radio receiver reference bit error ratio (4.5.7.2)

At a level of -73 dBm the BER shall be $\leq 10^{-5}$, the FER shall be $\leq 5 \cdot 10^{-4}$.

Measurement uncertainty: + 0.25 dB / -0.27 dB

TRAFFIC SLOT:	22			
TRAFFIC CARRIER:	0			
PACKET TYPE:	P32+Z			
BER: 0.00000000	FER: 0.000000	evaluated:	32.000 Mbit	P
TRAFFIC SLOT:	14			
TRAFFIC CARRIER:	5			
PACKET TYPE:	P32+Z			
BER: 0.00000000	FER: 0.000000	evaluated:	32.000 Mbit	P
TRAFFIC SLOT:	16			
TRAFFIC CARRIER:	9			
PACKET TYPE:	P32+Z			
BER: 0.00000000	FER: 0.000000	evaluated:	32.000 Mbit	P

2.3.15 TC 15 Receiver interference performance (4.5.7.3)

The BER shall be $\leq 10^{-3}$.

Measurement uncertainty: + 0.32 dB / -0.34 dB

TRAFFIC SLOT: 22

TRAFFIC CARRIER: 0

PACKET TYPE: P32+Z

BER: FER: kBit: intf.car: lev in dBm:

0.000000	0.000000	320	-3	-33.0
0.000000	0.000000	320	-2	-39.0
0.000000	0.000000	320	-1	-60.0
0.000206	0.000000	664	0	-83.0
0.000000	0.000000	320	1	-60.0
0.000000	0.000000	320	2	-39.0
0.000000	0.000000	320	3	-33.0
0.000000	0.000000	320	4	-33.0
0.000000	0.000000	320	5	-33.0
0.000000	0.000000	320	6	-33.0
0.000000	0.000000	320	7	-33.0
0.000000	0.000000	320	8	-33.0
0.000000	0.000000	320	9	-33.0
0.000000	0.000000	320	10	-33.0
0.000000	0.000000	320	11	-33.0
0.000000	0.000000	320	12	-33.0

TRAFFIC SLOT: 14

TRAFFIC CARRIER: 5

PACKET TYPE: P32+Z

BER: FER: kBit: intf.car: lev in dBm:

0.000000	0.000000	320	-3	-33.0
0.000000	0.000000	320	-2	-33.0
0.000000	0.000000	320	-1	-33.0
0.000000	0.000000	320	0	-33.0
0.000000	0.000000	320	1	-33.0
0.000000	0.000000	320	2	-33.0
0.000000	0.000000	320	3	-39.0
0.000000	0.000000	320	4	-60.0
0.000149	0.000000	638	5	-83.0
0.000000	0.000000	320	6	-60.0
0.000000	0.000000	320	7	-39.0
0.000000	0.000000	320	8	-33.0
0.000000	0.000000	320	9	-33.0
0.000000	0.000000	320	10	-33.0
0.000000	0.000000	320	11	-33.0
0.000000	0.000000	320	12	-33.0

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TRAFFIC SLOT:	16			
TRAFFIC CARRIER:	9			
PACKET TYPE:	P32+Z			
BER:	FER:	kBit:	intf.car:	lev in dBm:
0.000000	0.000000	320	-3	-33.0
0.000000	0.000000	320	-2	-33.0
0.000000	0.000000	320	-1	-33.0
0.000000	0.000000	320	0	-33.0
0.000000	0.000000	320	1	-33.0
0.000000	0.000000	320	2	-33.0
0.000000	0.000000	320	3	-33.0
0.000000	0.000000	320	4	-33.0
0.000000	0.000000	320	5	-33.0
0.000000	0.000000	320	6	-33.0
0.000006	0.000000	332	7	-39.0
0.000000	0.000000	320	8	-60.0
0.000148	0.000000	573	9	-83.0
0.000000	0.000000	320	10	-60.0
0.000000	0.000000	320	11	-39.0
0.000000	0.000000	320	12	-33.0

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2.3.16 TC 16 Radio receiver blocking, case 1 (4.5.7.4)

The BER shall be $\leq 10^{-3}$.

Measurement uncertainty: + 0.81 dB / -0.96 dB conducted

Measurement uncertainty: + 3.00 dB / -3.00 dB radiated

TRAFFIC SLOT:	18
TRAFFIC CARRIER:	5
PACKET TYPE:	P32+Z
transmitter level: -80.00 dBm	
additional CW interferer level: 0.00 dB	
start frequency:	25.00 MHz
stop frequency:	100.00 MHz
step frequency:	1.00 MHz
320 kBit to evaluate	

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TRAFFIC SLOT:	20
TRAFFIC CARRIER:	5
PACKET TYPE:	P32+Z
transmitter level: -80.00 dBm	
additional CW interferer level: 0.00 dB	
start frequency:	101.00 MHz
stop frequency:	2900.00 MHz
step frequency:	1.00 MHz
320 kBit to evaluate	

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TRAFFIC SLOT:	18
TRAFFIC CARRIER:	5
PACKET TYPE:	P32+Z
transmitter level: -80.00 dBm	
additional CW interferer level: 0.00 dB	
start frequency:	2901.00 MHz
stop frequency:	12750.00 MHz
step frequency:	1.00 MHz
320 kBit to evaluate	

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2.3.17 TC 17 Radio receiver blocking, case 2 (4.5.7.5)

The BER shall be $\leq 10^{-3}$.

Measurement uncertainty: + 0.63 dB / -0.71 dB

TRAFFIC SLOT: 22
TRAFFIC CARRIER: 0
PACKET TYPE: P32+Z
BER: 0.00000000 FER: 0.000000 evaluated: 320 kbit

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TRAFFIC SLOT: 14
TRAFFIC CARRIER: 5
PACKET TYPE: P32+Z
BER: 0.00000000 FER: 0.000000 evaluated: 320 kbit

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TRAFFIC SLOT: 16
TRAFFIC CARRIER: 9
PACKET TYPE: P32+Z
BER: 0.00000000 FER: 0.000000 evaluated: 320 kbit

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2.3.18 TC 18 Receiver intermodulation performance (4.5.7.6)

The BER shall be $\leq 10^{-3}$.

Measurement uncertainty: + 0.40 dB / -0.43 dB

TRAFFIC SLOT: 18
TRAFFIC CARRIER: 0
PACKET TYPE: P32+Z
M: 0 A: 2 B: 4
BER: 0.000000 FER: 0.0000 eval.data: 320 kbit
M: 0 A: -2 B: -4
BER: 0.000000 FER: 0.0000 eval.data: 320 kbit

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TRAFFIC SLOT: 20
TRAFFIC CARRIER: 5
PACKET TYPE: P32+Z
M: 5 A: 7 B: 9
BER: 0.000000 FER: 0.0000 eval.data: 320 kbit
M: 5 A: 3 B: 1
BER: 0.000000 FER: 0.0000 eval.data: 320 kbit

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TRAFFIC SLOT: 22
TRAFFIC CARRIER: 9
PACKET TYPE: P32+Z
M: 9 A: 11 B: 13
BER: 0.000003 FER: 0.0000 eval.data: 326 kbit
M: 9 A: 7 B: 5
BER: 0.000000 FER: 0.0000 eval.data: 320 kbit

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2.3.19 TC 19 Spurious emissions when the radio endpoint has no allocated transmit ch. (4.5.7.7)

The EUT shall conformance

Outside the DECT band:

The emission as measured shall not be greater than 2nW (-57dbm) between 30MHz and 1GHz; and between 1GHz and 12.75GHz the emission as measured shall not exceed 20nW(-47dBm).

Inside the DECT band:

The power level as measured of any spurious emission shall not exceed 2nW(-57dBm) in a 1MHz Bandwidth.

In one 1MHz band within the DECT frequency band, the maximum allowable ERP shall be less than 20nW(-47dBm)

In up to two bands of 30KHz, the maximum ERP shall less than 250nw(-36dBm)

Radiated spurious emission

RF ranges	Maximun peak power level	Result/max.value
30MHz-----1.0GHz	2nW(-57dBm)	-64.99 dBm
1GHz-----4GHz	20nW(-47dBm)	-48.19dBm
Inside the DECT band	2nW(-57dBm)	-59.74 dBm

Measurement uncertainty radiated: + 3.53 dB / -3.53 dB

Conducted spurious emission

RF ranges	Maximun peak power level	Result/max.value
30MHz-----1.0GHz	2nW(-57dBm)	-62.24dBm
1GHz-----12.75GHz	20nW(-47dBm)	-50.74dBm
Inside the DECT band	2nW(-57dBm)	-60.28dBm

Measurement uncertainty conducted:+ 0.85 dB / -0.92 dB

- 2.3.20 TC 20 Synchronisation port (4.5.8)**
No test
- 2.3.21 TC 21 Equipment identity verification (4.5.9)**
Statement of the applicant“
- 2.3.22 TC 22 Efficient use of radio spectrum (4.5.10)**
Statement of the applicant“
- 2.3.23 TC23 WRS (4.5.11)**
No test
- 2.3.24 TC24 PP to PP communication (4.5.12)**
No test
- 2.3.25 TC25 Direct communication (4.5.13)**
No test
- 2.3.26 TC26 Higher level modulation (4.5.14)**
No test

4 Appendix Photo of the Test Candidate (exterior)



Photo of the Test Candidate (interior)

